In the Claims:

Amend the Claims as follows:

- 1. (currently amended) A branch prediction apparatus, comprising:
 - a base misprediction history register providing an output;
- a meta predictor to receive <u>as inputs</u> an index value and a branch prediction to generate a misprediction value in accordance with <u>said inputs</u> and <u>said base misprediction</u> history register <u>output</u>; and
- a logic gate to receive said branch prediction and said misprediction value to generate a final prediction.
- 2. (original) The branch prediction apparatus of claim 1, wherein said base misprediction history register includes misprediction history data.
- 3. (original) The branch prediction apparatus of claim 1, further comprising an instruction that provides said index value.
- 4. (original) The branch prediction apparatus of claim 3, wherein said instruction is a branch instruction.
- 5. (original) The branch prediction apparatus of claim 4, wherein said final prediction determines a branch for said branch instruction.
- 6. (currently amended) The branch prediction apparatus of claim 1, further comprising a branch predictor that receives said index value and generates said branch predictor prediction.
- 7. (original) The branch prediction apparatus of claim 6, wherein said branch predictor utilizes a prediction scheme to generate said branch prediction.
- 8. (original) The branch prediction apparatus of claim 6, wherein said branch predictor includes a target address field and a prediction table.

- 9. (original) The branch prediction apparatus of claim 1, wherein said base misprediction history register contains values of zero (0), and the misprediction value is not generated by said meta predictor.
- 10. (original) A method for predicting branches, comprising:

receiving an index value, a branch prediction value correlating to said index value, and a misprediction history value at a meta predictor; and

generating a misprediction value at said meta predictor.

- 11. (original) The method of claim 10, further comprising generating said branch prediction value at a branch predictor.
- 12. (original) The method of claim 11, further comprising receiving an index value at said branch predictor.
- 13. (original) The method of claim 10, further comprising generating a final prediction according to said branch prediction and said misprediction value.
- 14. (original) The method of claim 10, further comprising determining a final value, and updating said meta predictor and said base misprediction history register according to said final value.
- 15. (original) The method of claim 14, wherein said updating includes comparing said final value to said branch prediction.
- 16. (original) The method of claim 10, further comprising bypassing said meta predictor when said misprediction history value contains all zeros (0).
- 17. (original) A processor, comprising:
 - a branch predictor to generate a branch prediction;
 - a base misprediction history register;

a meta predictor that receives an index value, said branch prediction and base misprediction history register data to generate a misprediction value.

- 18. (original) The processor of claim 17, further comprising a final prediction to correlate to said misprediction value and said branch prediction value.
- 19. (original) The processor of claim 17, further comprising a logic gate to generate said final prediction.
- 20. (original) A computer readable medium having stored a plurality of executable instructions, the plurality of instructions comprising instructions to:

receive an index value, a branch prediction value correlating to said index value, and a misprediction history value at a meta predictor; and

generate a misprediction value at said meta predictor.

- 21. (original) The computer readable medium of claim 20, further comprising an instruction to generate said branch prediction value at a branch predictor.
- 22. (original) The computer readable medium of claim 21, further comprising an instruction to receive an index value at said branch predictor.
- 23. (original) The computer readable medium of claim 19, further comprising an instruction to generate a final prediction according to said branch prediction and said misprediction value.
- 24. (original) A method for restoring a branch prediction apparatus following a branch misprediction of a branch instruction, comprising:

restoring a base misprediction history register; and restoring a branch predictor history register.

25. (currently amended) The method of claim 24, further comprising updating a branch predictor.

- 26. (original) The method of claim 24, further comprising updating a meta predictor.
- 27. (original) The method of claim 24, further comprising flushing an instruction pipeline processing said branch instruction.